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## 配列表

&lt;110&gt; 学校法人慶應義塾(Keio University)

&lt;120&gt; c-Fos蛋白質と複合体を形成する蛋白質、及び、それをコードする核酸、ならびに、それらの利用方法

&lt;130&gt; P393-OP1718

&lt;150&gt; JP 2002-360046

&lt;151&gt; 2002-12-11

&lt;160&gt; 191

&lt;170&gt; PatentIn version 3.0

&lt;210&gt; 1

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1

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Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg
20          25          30
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu
35          40          45
Ala Asp Arg Leu Lys His Leu Thr Ser Arg Leu Gly His Leu Thr Asp
50          55          60
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu
65          70          75          80
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr
85          90          95
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr
100         105         110
Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
115         120         125
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
130         135         140
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu
145         150         155         160
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp

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165  
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170

175

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Ala Asp Arg Gln Arg His Asp  
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35

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&lt;400&gt; 14

Asp	Lys	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
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Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
		20						25					30		
Arg	Leu	Thr	Asp	Arg	Leu	Met	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu
		35					40					45			
Ala	Asp	Arg	Gln	Arg	His	Asp									
	50					55									

&lt;210&gt; 15

&lt;211&gt; 281

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 15

Met	Ala	Thr	Asn	Phe	Leu	Ala	His	Glu	Lys	Ile	Trp	Phe	Asp	Lys	Phe
1				5					10					15	
Lys	Tyr	Asp	Asp	Ala	Glu	Arg	Arg	Phe	Tyr	Glu	Gln	Met	Asn	Gly	Pro
		20						25					30		
Val	Thr	Ser	Gly	Ser	Arg	Gln	Glu	Asn	Gly	Ala	Ser	Val	Ile	Leu	Arg
		35					40					45			
Asp	Ile	Ala	Arg	Ala	Arg	Glu	Asn	Ile	Gln	Lys	Ser	Leu	Ala	Gly	Ser
	50					55				60					
Ser	Gly	Pro	Gly	Ala	Ser	Ser	Gly	Pro	Gly	Gly	Asp	His	Ser	Glu	Leu
65					70				75					80	
Ile	Val	Arg	Ile	Thr	Ser	Leu	Glu	Val	Glu	Asn	Gln	Asn	Leu	Arg	Gly
			85					90					95		
Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Lys	Leu	Glu	Ala	Arg	Leu
		100						105					110		
Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala	Thr	Ala	Pro	Gln
	115						120					125			
Thr	Gln	His	Val	Ser	Pro	Met	Arg	Gln	Val	Glu	Pro	Pro	Thr	Lys	Lys
	130					135					140				
Gly	Ala	Thr	Pro	Ala	Glu	Asp	Asp	Glu	Asp	Lys	Asp	Ile	Asp	Leu	Phe
145					150					155				160	
Gly	Ser	Asp	Glu	Glu	Glu	Glu	Asp	Lys	Glu	Ala	Ala	Arg	Leu	Arg	Glu
			165						170					175	
Glu	Arg	Leu	Arg	Gln	Tyr	Ala	Glu	Lys	Ala	Lys	Lys	Pro	Thr	Leu	
		180					185					190			
Val	Ala	Lys	Ser	Ser	Ile	Leu	Leu	Asp	Val	Lys	Pro	Trp	Asp	Asp	Glu
		195					200					205			

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Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp  
 210 215 220  
 Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile  
 225 230 235 240  
 Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr  
 245 250 255  
 Asp Leu Leu Glu Glu Glu Ile Thr Lys Phe Glu Glu His Val Gln Ser  
 260 265 270  
 Val Asp Ile Ala Ala Phe Asp Lys Ile  
 275 280

<210> 16  
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 Asn Leu Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu  
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 35 40 45  
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 20 25 30  
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 35 40 45  
 Ala Pro Gln Thr Arg  
 50

<210> 18  
 <211> 54

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 18

His	Ser	Glu	Leu	Ile	Val	Arg	Ile	Asn	Ser	Leu	Glu	Val	Glu	Asn	Gln
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Asn	Leu	Arg	Gly	Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Lys	Leu
			20					25					30		
Glu	Ala	Arg	Leu	Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala
			35				40						45		
Thr	Ala	Pro	Arg	Thr	Arg										
			50												

&lt;210&gt; 19

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 19

His	Ser	Glu	Leu	Ile	Val	Arg	Ile	Thr	Ser	Leu	Glu	Val	Glu	Asn	Gln
1				5					10					15	
Asn	Leu	Arg	Gly	Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Arg	Leu
			20					25					30		
Glu	Ala	Arg	Leu	Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala
			35				40						45		
Thr	Ala	Pro	Gln	Thr	Arg										
			50												

&lt;210&gt; 20

&lt;211&gt; 268

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 20

Met	Leu	Ser	Ala	Phe	Pro	Ala	Gln	Leu	Ala	Gln	Gln	Ser	Ser	Phe	Gly
1				5					10					15	
Val	Cys	Val	Leu	Gly	Cys	Thr	Glu	Met	Val	His	Gln	Glu	Asn	Cys	Ser
			20					25					30		
Tyr	Gln	Ala	Gln	Lys	Asn	Glu	Arg	Glu	Ser	Ile	Arg	Gln	Lys	Leu	Ala
			35				40					45			
Leu	Gly	Ser	Phe	Phe	Asp	Asp	Gly	Pro	Gly	Ile	Tyr	Thr	Ser	Cys	Ser
			50				55				60				
Lys	Ser	Gly	Lys	Pro	Ser	Leu	Ser	Ala	Arg	Leu	Gln	Ser	Gly	Met	Asn



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65		70		75		80									
Leu	Gln	Ile	Cys	Phe	Val	Asn	Asp	Ser	Gly	Ser	Asp	Lys	Asp	Ser	Asp
			85						90					95	
Ala	Asp	Asp	Ser	Lys	Thr	Glu	Thr	Ser	Leu	Asp	Thr	Pro	Leu	Ser	Pro
			100					105					110		
Met	Ser	Lys	Gln	Ser	Ser	Ser	Tyr	Ser	Asp	Arg	Asp	Thr	Thr	Glu	Glu
		115					120					125			
Glu	Ser	Glu	Ser	Leu	Asp	Asp	Met	Asp	Phe	Leu	Thr	Arg	Gln	Lys	Lys
	130					135					140				
Leu	Gln	Ala	Glu	Ala	Lys	Met	Ala	Leu	Ala	Met	Ala	Lys	Pro	Met	Ala
145					150					155				160	
Lys	Met	Gln	Val	Glu	Val	Glu	Arg	Gln	Asn	Arg	Lys	Lys	Ser	Pro	Val
			165						170					175	
Ala	Asp	Leu	Leu	Pro	His	Met	Pro	His	Ile	Ser	Glu	Cys	Leu	Met	Lys
		180						185					190		
Arg	Ser	Leu	Lys	Pro	Thr	Asp	Leu	Arg	Asp	Met	Thr	Ile	Gly	Gln	Leu
	195						200					205			
Gln	Val	Ile	Val	Asn	Asp	Leu	His	Ser	Gln	Ile	Glu	Ser	Leu	Asn	Glu
	210					215					220				
Glu	Leu	Val	Gln	Leu	Leu	Leu	Ile	Arg	Asp	Glu	Leu	His	Thr	Glu	Gln
225					230					235				240	
Asp	Ala	Met	Leu	Val	Asp	Ile	Glu	Asp	Leu	Thr	Arg	His	Ala	Glu	Ser
			245						250					255	
Gln	Gln	Lys	His	Met	Ala	Glu	Lys	Met	Pro	Ala	Lys				
		260						265							

&lt;210&gt; 21

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 21

Pro	His	Thr	Pro	His	Ile	Ser	Glu	Cys	Leu	Met	Lys	Arg	Ser	Leu	Lys
1			5						10					15	
Pro	Thr	Asp	Leu	Arg	Asp	Met	Thr	Ile	Gly	Gln	Leu	Gln	Val	Ile	Val
		20					25					30			
Asn	Asp	Leu	His	Ser	Gln	Ile	Glu	Ser	Leu	Asn	Glu	Glu	Leu	Val	Gln
		35				40					45				
Leu	Leu	Leu	Ile	Arg	Asp	Glu	Leu	His	Thr	Glu	Gln	Asp	Ala	Met	Leu
	50					55				60					
Val	Asp	Ile	Glu	Asp	Leu	Thr	Arg	His	Ala	Glu	Arg	Glu	Gln		
65					70					75					

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<210> 22  
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 <213> Mus musculus

<400> 22

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1				5					10					15	
Pro	Thr	Asp	Leu	Arg	Asp	Met	Thr	Ile	Gly	Gln	Leu	Gln	Val	Ile	Val
			20					25					30		
Asn	Asp	Leu	His	Ser	Gln	Ile	Glu	Arg	Leu	Asn	Glu	Glu	Leu	Val	Gln
		35					40					45			
Leu	Leu	Leu	Ile	Arg	Asp	Glu	Leu	His	Thr	Glu	Gln	Asp	Ala	Met	Leu
		50				55					60				
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<211> 114

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<210> 29

<211> 135

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&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 29

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ctagcagtta gacag	135

&lt;210&gt; 30

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 30

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcatt	120
ctaacagaca gactgaggca tctagcagac agacaggaggc acgac	165

&lt;210&gt; 31

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 31

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcac	120
ctaacagaca gaccgaggca tctagcagac agacaggaggc acgac	165

&lt;210&gt; 32

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 32

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acagacagat tggggcattct aacagacaga ctgatgcattc taacagacag actgatgcatt	120
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&lt;210&gt; 33

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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&lt;400&gt; 33

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&lt;210&gt; 34

&lt;211&gt; 114

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 34

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&lt;210&gt; 35

&lt;211&gt; 93

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 35

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&lt;210&gt; 36

&lt;211&gt; 114

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 36

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&lt;210&gt; 37

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 37

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ctagcagtca gacag 135

&lt;210&gt; 38

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 ttgcagcagg ccatttccaa gttggaggcc cggctgagct ctctagagaa gatttcacct 360  
 actccccgag ccacggcccc acagacccaa catgtctctc ctatgcgtca agtggagccc 420  
 ccaaccaaga aaggagccac accagcagag gacgatgagg acaaggacat tgacctgttc 480  
 ggcagtgcag aggaggaaga agataaggag gctgccccgac tacgggagga gaggctacgc 540  
 cagtacgcag agaagaaggc caagaagccc acactggtgg ccaaattctc catccttttg 600  
 gatgttaaac cttgggatga tgagactgac atggcccagc tagagacttg tgtgcgttcc 660  
 atccaattgg acgggctggt ttggggggcc tccaagcttg tgctgtttgg ctatggcatc 720  
 cggaagctgc agatccagtg tgtggtggag gatgacaaag tgggcaccga cttgctcgag 780  
 gaggagatca ccaaatttga ggagcatgtg cagagtgtcg acatgcagc tttcgacaag 840  
 atc 843

<210> 40  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 40  
 cacagtgcgc tcattgtgag gattaccagt ctggaagtgg agaatacagaa ctttcgaggc 60  
 gtggtgcaag atttgcagca ggccatttcc aagtggagg cccggctgag ctctctagag 120  
 aagagttcac ctactccccg agccacggcc ccacagaccc ga 162

<210> 41  
 <211> 159

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&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 41

cgtgagctca	ttgtgaggat	taccagtctg	gaagtggaga	atcagaacct	tcgaggcgtg	60
gtgcaagatt	tgcagcaggt	catttccaag	ttggaggccc	ggctgagctc	tctagagaag	120
agttcaccta	ctccccgagc	cacggcccca	cagacccga			159

&lt;210&gt; 42

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 42

cacagtgage	tcattgtgag	gattaacagt	ttggaagtgg	agaatcagaa	ccttcgaggg	60
gtggtgcaag	atttgcagca	ggccatttcc	aagttggagg	cccggctgag	ctcttttagag	120
aagagttcac	ctactccccg	agccacggcc	ccacggaccc	ga		162

&lt;210&gt; 43

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 43

cacagtgage	tcattgtgag	gattaccagt	ctggaagtgg	agaatcagaa	ccttcggggc	60
gtggtgcaag	atttgcagca	ggccatttcc	aggttggagg	cccggctgag	ctctcttagag	120
aagagttcac	ctactccccg	agccacggcc	ccacagaccc	ga		162

&lt;210&gt; 44

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 44

atgctcagcg	ctttccctgc	gcagctcgcc	cagcagtcca	gctttggggg	ctgcgtccta	60
ggatgtactg	agatggtaca	tcaggagaac	tgctcgtacc	aggcacagaa	gaatgagaga	120
gagtctatca	gacagaagtt	ggcactcgga	agcttctttg	acgatggccc	aggaatctat	180
accagctgca	gcaaaagtgg	gaagccaagc	ctttctgcaa	gactacagag	cgggatgaac	240
ctccagatat	gctttgtcaa	tgacagcggc	agtgacaagg	acagcgatgc	agatgacagt	300
aagacggaaa	ccagcttgga	cacgcccttg	tcccccatga	gcaagcagag	ttcttcctat	360
tcggatagag	acacaactga	ggaggagtct	gaatccctgg	atgacatgga	cttcctcaca	420
aggcaaaaga	agctacaagc	tgaagccaaa	atggctctgg	ccatggccaa	accaatggcc	480
aaaatgcaag	tagaagtgga	aagacagaa	aggaaaaagt	ctcccgtcgc	tgatcttctc	540

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ccacacatgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg      600
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgaa      660
agtttgaatg aagagttggt ccagctgctc cttattcgag atgagctgca cacagaacaa      720
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagagtca gcagaagcac      780
atggctgaga aaatgcccgcg gaag                                         804

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<210> 45  
 <211> 234  
 <212> DNA  
 <213> Mus musculus

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<400> 45
ccacacacgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg      60
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgaa      120
agtttgaatg aagagttggt ccagctgctc cttattcgag atgagctgca cacagaacaa      180
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagaggga gcag          234

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<210> 46  
 <211> 234  
 <212> DNA  
 <213> Mus musculus

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<400> 46
ccacacatgc ctcacataag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg      60
agagacatga ctatcgggca gctacaagtg atcgtcaatg acctccactc ccagattgag      120
cgtttgaatg aagagttggt ccagctgctc cttattcgag atgagctgca cacagaacaa      180
gatgccatgc tgggtggacat tgaagacttg actagacacg ctgagaagga gcag          234

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<210> 47  
 <211> 191  
 <212> PRT  
 <213> Mus musculus

```

<400> 47
Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg
1           5           10           15
Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg
           20           25           30
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu
           35           40           45
Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp
           50           55           60
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu

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65		70		75		80
Arg His Leu Thr Asp	Arg Leu Gly His Leu Thr Asp	Arg Gln Arg Tyr				
	85	90		95		
Leu Ala Asp Arg Leu Arg His Leu Thr Asp	Arg Leu Gly His Leu Thr					
	100	105		110		
Asp Lys Leu Arg His Leu Thr Asp	Arg Leu Gly His Leu Thr Asp	Arg				
	115	120		125		
Leu Arg His Leu Thr Asp	Arg Leu Gly His Leu Thr Asp	Arg Leu Met				
	130	135		140		
His Leu Thr Asp	Arg Leu Met His Leu Thr Asp	Arg Leu Arg His Leu				
	145	150		155		160
Ala Asp Arg Gln Arg His Leu Ala Asp	Arg Gln Arg His Leu Ala Asp					
	165	170		175		
Arg Leu Arg His Leu Ala Asp	Lys Leu Arg His Gln Leu Gln Leu					
	180	185		190		

<210> 48  
 <211> 71  
 <212> PRT  
 <213> Mus musculus

<400> 48  
 Ile Glu Ala Ser Asn Arg Gln Ile Gly Ala Ser Asn Arg Gln Thr Glu  
 1 5 10 15  
 Ala Ser Asn Arg Gln Ile Gly His Leu Thr Asp Arg Leu Arg His Leu  
 20 25 30  
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp  
 35 40 45  
 Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln  
 50 55 60  
 Arg His Leu Ala Asp Arg Leu  
 65 70

<210> 49  
 <211> 55  
 <212> PRT  
 <213> Mus musculus

<400> 49  
 Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met  
 20 25 30



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<210> 53  
 <211> 45  
 <212> PRT  
 <213> Mus musculus

<400> 53  
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Thr  
 20 25 30  
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
 35 40 45

<210> 54  
 <211> 45  
 <212> PRT  
 <213> Mus musculus

<400> 54  
 Asp Arg Leu Gly His Leu Thr Asp Arg Leu Lys His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Gly His Leu Thr Asp Arg Leu Ile His Leu Thr Asp Arg Leu Met  
 20 25 30  
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
 35 40 45

<210> 55  
 <211> 45  
 <212> PRT  
 <213> Mus musculus

<400> 55  
 Gly Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met  
 20 25 30  
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
 35 40 45

<210> 56  
 <211> 38  
 <212> PRT

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&lt;213&gt; Mus musculus

&lt;400&gt; 56

Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Arg His Leu Ala Asp Arg Leu Lys His Leu Ala Asp Arg Leu Lys  
 20 25 30  
 His Leu Thr Asn Arg Lys  
 35

&lt;210&gt; 57

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 57

Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg  
 1 5 10 15  
 Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg  
 20 25 30  
 His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu  
 35 40 45  
 Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp  
 50 55 60  
 Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu  
 65 70 75 80  
 Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr  
 85 90 95  
 Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr  
 100 105 110  
 Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg  
 115 120 125  
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met  
 130 135 140  
 His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu  
 145 150 155 160  
 Ala Asp Arg Gln Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp  
 165 170 175  
 Lys Leu Arg His Gln Leu Gln Leu  
 180

&lt;210&gt; 58

&lt;211&gt; 79

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 58

Glu	Lys	Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser	Glu	Leu	Ala	Ser	Thr
1				5				10						15	
Ala	Asn	Thr	Leu	Arg	Glu	Gln	Val	Ala	Leu	Leu	Lys	Gln	Lys	Val	Met
			20					25						30	
Asn	His	Val	Asn	Ser	Gly	Cys	Gln	Leu	Met	Leu	Thr	Gln	Gln	Leu	Gln
		35					40					45			
Thr	Phe	Trp	Glu	Gln	Thr	Val	Arg	Ala	Glu	Gly	Gln	Trp	Lys	Lys	Lys
	50					55					60				
Asn	Asn	Arg	Asp	Lys	Leu	Glu	Asn	Leu	Thr	Gly	Cys	Asp	Arg	Glu	
65					70					75					

&lt;210&gt; 59

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 59

Arg	Ile	Lys	Ala	Glu	Arg	Lys	Arg	Met	Arg	Asn	Arg	Ile	Ala	Ala	Ser
1				5				10						15	
Glu	Cys	Arg	Lys	Arg	Lys	Leu	Glu	Arg	Ile	Ala	Arg	Leu	Glu	Glu	Lys
			20					25						30	
Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser	Glu	Leu	Ala	Ser	Thr	Ala	Asn
		35					40					45			
Met	Leu	Arg	Glu	Gln	Val	Ala	Gln	Leu	Lys	Gln	Lys	Val	Met	Asn	His
	50					55					60				
Val	Asn	Ser	Gly	Cys	Gln	Leu	Met	Leu	Thr	Gln	Gln				
65					70					75					

&lt;210&gt; 60

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 60

Gly	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His
1				5				10						15	
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala
			20					25						30	
Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Lys	His	Leu	Thr	Asp	Arg

35 40 45  
Tyr

<400> 61  
His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu  
1 5 10 15  
Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp  
20 25 30  
Arg Leu Met His Leu Thr Asp Arg Leu Gly His Leu Ala Asp Arg Gln  
35 40 45  
Arg His Leu Ala Asp Arg Gln Arg  
50 55

<400> 62  
Ala Asp Arg Leu Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp  
1 5 10 15  
Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
20 25 30  
Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp  
35 40

<400> 63  
Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp  
1 5 10 15  
Arg Leu Arg His Leu Thr Asp Arg Leu Arg His  
20 25

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<210> 64  
 <211> 53  
 <212> PRT  
 <213> Mus musculus

<400> 64  
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp  
 1 5 10 15  
 Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
 20 25 30  
 Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His  
 35 40 45  
 Leu Ala Asp Arg Pro  
 50

<210> 65  
 <211> 46  
 <212> PRT  
 <213> Mus musculus

<400> 65  
 Arg Gln Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
 1 5 10 15  
 Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His  
 20 25 30  
 Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg Pro  
 35 40 45

<210> 66  
 <211> 39  
 <212> PRT  
 <213> Mus musculus

<400> 66  
 Asp Arg Leu Ser His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg  
 1 5 10 15  
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg  
 20 25 30  
 His Leu Ala Asp Arg Gln Arg  
 35

<210> 67  
 <211> 39

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 67

Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg
1				5					10					15	
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Arg
			20					25					30		
His	Leu	Ala	Asp	Arg	Gln	Arg									
			35												

&lt;210&gt; 68

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 68

Gly	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg
1				5					10					15	
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Arg
			20					25					30		
His	Leu	Ala	Asp	Arg	Gln	Arg									
			35												

&lt;210&gt; 69

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 69

Tyr	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu
1				5				10					15		
Thr	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp
			20					25					30		
Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	Gln					
			35					40							

&lt;210&gt; 70

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 70



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Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu  
 1 5 10 15  
 Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp  
 20 25 30  
 Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln  
 35 40

<210> 71  
 <211> 76  
 <212> PRT  
 <213> Mus musculus

<400> 71  
 Arg Ile Lys Ala Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser  
 1 5 10 15  
 Lys Cys Arg Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys  
 20 25 30  
 Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn  
 35 40 45  
 Met Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His  
 50 55 60  
 Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln  
 65 70 75

<210> 72  
 <211> 44  
 <212> PRT  
 <213> Mus musculus

<400> 72  
 Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly  
 1 5 10 15  
 His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu  
 20 25 30  
 Ala Asp Arg Gln Arg His Leu Ala Asp Arg Gln Lys  
 35 40

<210> 73  
 <211> 36  
 <212> PRT  
 <213> Mus musculus

<400> 73

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Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly  
1 5 10 15  
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu  
20 25 30  
Ala Asp Thr Gln  
35

<210>	74
<211>	44
<212>	PRT
<213>	Mus musculus

<400> 74  
Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His  
1 5 10 15  
Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr  
20 25 30  
Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His  
35 40

<210>	75
<211>	51
<212>	PRT
<213>	Mus musculus

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<400> 75
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His
1          5          10          15
Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr
          20          25          30
Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg
          35          40          45
Gln Arg His
          50

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<210>	76
<211>	51
<212>	PRT
<213>	Mus musculus

<400> 76  
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His  
1 5 10 15

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Leu Thr Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Met His Leu Thr  
                   20                                  25                                  30  
 Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg  
                   35                                  40                                  45  
 Gln Arg His  
                   50

<210> 77  
 <211> 584  
 <212> PRT  
 <213> Mus musculus

<400> 77  
 Met Ser His Gln Pro Leu Ser Cys Leu Thr Glu Lys Gly Asp Ser Pro  
 1                  5                                  10                                  15  
 Cys Glu Thr Pro Gly Asn Gly Pro Ser Asn Met Val His Pro Ser Leu  
                   20                                  25                                  30  
 Asp Thr Phe Thr Pro Glu Glu Leu Leu Gln Gln Met Lys Glu Leu Leu  
                   35                                  40                                  45  
 Val Glu Asn His Gln Leu Lys Glu Ala Met Lys Leu Asn Asn Gln Ala  
                   50                                  55                                  60  
 Met Lys Gly Arg Phe Glu Glu Leu Ser Ala Trp Thr Glu Lys Gln Lys  
 65                                  70                                  75                                  80  
 Glu Glu Arg Leu Leu Phe Glu Met Gln Ser Lys Glu Val Lys Glu Arg  
                   85                                  90                                  95  
 Leu Lys Ala Leu Thr His Glu Asn Glu Arg Leu Lys Glu Glu Leu Gly  
                   100                                  105                                  110  
 Lys Phe Lys Glu Lys Ser Glu Lys Pro Leu Glu Asp Leu Thr Gly Gly  
                   115                                  120                                  125  
 Tyr Arg Tyr Pro Arg Ala Leu Glu Glu Glu Val Glu Lys Leu Lys Thr  
                   130                                  135                                  140  
 Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val Met Arg Leu  
 145                                  150                                  155                                  160  
 Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu Leu Gln Leu  
                   165                                  170                                  175  
 Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val Glu Ile Arg  
                   180                                  185                                  190  
 Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met Lys Asn Cys  
                   195                                  200                                  205  
 Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn Cys Thr Glu  
                   210                                  215                                  220  
 Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val Ser Gln Leu  
 225                                  230                                  235                                  240

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Leu Leu Cys Leu Arg Glu Gly Asn Gln Lys Val Glu Arg Leu Glu Val  
 245 250 255  
 Ala Leu Arg Glu Ala Lys Glu Arg Ile Ser Asp Phe Glu Lys Lys Ala  
 260 265 270  
 Asn Gly His Ser Ser Thr Glu Lys Gln Thr Ala Arg Arg Ala Asp Arg  
 275 280 285  
 Glu Lys Glu Asp Lys Gly Gln Glu Ser Val Gly Ser Glu Val Glu Thr  
 290 295 300  
 Leu Ser Ile Gln Val Thr Ser Leu Phe Lys Glu Leu Gln Glu Ala His  
 305 310 315 320  
 Thr Lys Leu Ser Glu Ala Glu Leu Met Lys Lys Arg Leu Gln Glu Lys  
 325 330 335  
 Cys Gln Ala Leu Glu Arg Lys Asn Ser Ala Thr Pro Ser Glu Leu Asn  
 340 345 350  
 Glu Lys Gln Glu Leu Val Tyr Ser Asn Lys Lys Leu Glu Leu Gln Val  
 355 360 365  
 Glu Ser Met Arg Ser Glu Ile Lys Met Glu Gln Ala Lys Thr Glu Glu  
 370 375 380  
 Glu Lys Ser Arg Leu Ala Thr Leu Gln Ala Thr His Asn Lys Leu Leu  
 385 390 395 400  
 Gln Glu His Asn Lys Ala Leu Lys Thr Ile Glu Glu Leu Thr Lys Gln  
 405 410 415  
 Gln Ala Glu Lys Val Asp Lys Met Leu Leu Gln Glu Leu Ser Glu Lys  
 420 425 430  
 Leu Glu Leu Ala Glu Gln Ala Leu Ala Ser Lys Gln Leu Gln Met Asp  
 435 440 445  
 Glu Met Lys Gln Thr Leu Ala Lys Gln Glu Glu Asp Leu Glu Thr Met  
 450 455 460  
 Ala Val Leu Arg Ala Gln Met Glu Val Tyr Cys Ser Asp Phe His Ala  
 465 470 475 480  
 Glu Arg Ala Ala Arg Glu Lys Ile His Glu Glu Lys Glu Gln Leu Ala  
 485 490 495  
 Leu Gln Leu Ala Ile Leu Leu Lys Glu Asn Asn Asp Ile Glu Glu Gly  
 500 505 510  
 Gly Ser Arg Gln Ser Leu Met Glu Met Gln Cys Arg His Gly Ala Arg  
 515 520 525  
 Thr Ser Asp Ser Asp Gln Gln Thr Tyr Leu Phe Gln Arg Gly Ala Glu  
 530 535 540  
 Asp Arg Ser Trp Gln His Gly Gln Gln Pro Arg Ser Ile Pro Ile His  
 545 550 555 560  
 Ser Cys Pro Lys Cys Gly Glu Val Leu Pro Asp Ile Asp Thr Leu Gln  
 565 570 575  
 Ile His Val Met Asp Cys Ile Ile

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580

<210> 78  
 <211> 108  
 <212> PRT  
 <213> Mus musculus

<400> 78  
 Leu Lys Thr Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val  
 1 5 10 15  
 Met Arg Leu Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu  
 20 25 30  
 Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val  
 35 40 45  
 Glu Ile Arg Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met  
 50 55 60  
 Lys Ser Cys Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn  
 65 70 75 80  
 Cys Thr Glu Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val  
 85 90 95  
 Ser Gln Leu Leu Leu Cys Leu Arg Glu Gly Asn Gln  
 100 105

<210> 79  
 <211> 62  
 <212> PRT  
 <213> Mus musculus

<400> 79  
 His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
 1 5 10 15  
 Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser  
 20 25 30  
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
 35 40 45  
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg  
 50 55 60

<210> 80  
 <211> 62  
 <212> PRT  
 <213> Mus musculus

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&lt;400&gt; 80

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
 1 5 10 15  
 Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser  
 20 25 30  
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
 35 40 45  
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Ala Pro Thr Arg  
 50 55 60

&lt;210&gt; 81

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 81

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
 1 5 10 15  
 Leu Gly Ile Val Ser Glu Leu Arg Leu Lys Leu Asn Ser Gly Gly Ser  
 20 25 30  
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
 35 40 45  
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg  
 50 55 60

&lt;210&gt; 82

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 82

Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu  
 1 5 10 15  
 Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu  
 20 25 30  
 Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr  
 35 40 45  
 Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His  
 50 55 60  
 Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser Thr  
 65 70 75 80  
 Arg Ser Pro Met Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu  
 85 90 95

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Glu Glu Glu Ser Asp Ser  
100

<210> 83  
<211> 56  
<212> PRT  
<213> Mus musculus

<400> 83  
Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys  
1 5 10 15  
Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr  
20 25 30  
Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His  
35 40 45

Lys Asp Cys Pro Val Thr Ala Gln  
50 55

<210> 84  
<211> 79  
<212> PRT  
<213> Mus musculus

<400> 84  
Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Val Glu Thr Pro Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
65 70 75

<210> 85  
<211> 413  
<212> PRT  
<213> Mus musculus

<400> 85  
Met Gly Asp Asp Arg Pro Phe Val Cys Ser Ala Pro Gly Cys Gly Gln

1	5												10			15		
Arg	Phe	Thr	Asn	Glu	Asp	His	Leu	Ala	Val	His	Lys	His	Lys	His	Glu			
			20						25			30						
Met	Thr	Leu	Lys	Phe	Gly	Pro	Ala	Arg	Thr	Asp	Ser	Val	Ile	Ile	Ala			
			35			40						45						
Asp	Gln	Thr	Pro	Thr	Pro	Thr	Arg	Phe	Leu	Lys	Asn	Cys	Glu	Glu	Val			
50						55			60									
Gly	Leu	Phe	Asn	Glu	Leu	Ala	Ser	Ser	Phe	Glu	His	Glu	Phe	Lys	Lys			
65					70				75				80					
Ala	Ser	Asp	Asp	Asp	Glu	Lys	Lys	Gly	Ala	Ala	Gly	Pro	Leu	Asp	Met			
			85						90			95						
Ser	Leu	Pro	Ser	Thr	Pro	Asp	Ile	Lys	Ile	Lys	Glu	Glu	Glu	Pro	Val			
			100			105						110						
Glu	Val	Asp	Ser	Ser	Pro	Pro	Asp	Ser	Pro	Ala	Ser	Ser	Pro	Cys	Ser			
115						120						125						
Pro	Pro	Leu	Lys	Glu	Lys	Glu	Val	Thr	Thr	Lys	Pro	Val	Val	Ile	Ser			
130						135			140									
Thr	Pro	Thr	Pro	Thr	Ile	Val	Arg	Pro	Gly	Ser	Leu	Pro	Leu	His	Leu			
145					150				155				160					
Gly	Tyr	Asp	Pro	Leu	His	Pro	Thr	Leu	Pro	Ser	Pro	Thr	Ser	Val	Ile			
			165						170			175						
Thr	Gln	Ala	Pro	Pro	Ser	Asn	Arg	Gln	Ile	Gly	Ser	Pro	Thr	Gly	Ser			
180						185						190						
Leu	Pro	Leu	Val	Met	His	Leu	Ala	Asn	Gly	Gln	Thr	Met	Pro	Met	Leu			
195						200						205						
Pro	Gly	Pro	Pro	Val	Gln	Met	Pro	Ser	Val	Ile	Ser	Leu	Ala	Arg	Pro			
210						215						220						
Val	Ser	Met	Val	Pro	Asn	Ile	Pro	Gly	Ile	Pro	Gly	Pro	Pro	Val	Asn			
225					230				235				240					
Asn	Ser	Gly	Ser	Ile	Ser	Pro	Ser	Gly	His	Pro	Met	Pro	Ser	Glu	Ala			
			245						250			255						
Lys	Met	Arg	Leu	Lys	Ala	Thr	Leu	Thr	His	Gln	Val	Ser	Ser	Ile	Asn			
260						265						270						
Gly	Gly	Cys	Gly	Met	Val	Val	Gly	Thr	Ala	Ser	Thr	Met	Val	Thr	Ala			
275						280						285						
Arg	Pro	Glu	Gln	Asn	Gln	Ile	Leu	Ile	Gln	His	Pro	Asp	Ala	Pro	Ser			
290						295						300						
Pro	Ala	Gln	Pro	Gln	Val	Ser	Pro	Ala	Gln	Pro	Thr	Pro	Ser	Thr	Gly			
305					310				315				320					
Gly	Arg	Arg	Arg	Arg	Thr	Val	Asp	Glu	Asp	Pro	Asp	Glu	Arg	Arg	Gln			
			325						330			335						
Arg	Phe	Leu	Glu	Arg	Asn	Arg	Ala	Ala	Ala	Ser	Arg	Cys	Arg	Gln	Lys			
340						345						350						



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Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr  
           355                          360                          365  
 Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr Leu Leu Arg Asn Glu  
           370                          375                          380  
 Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His Lys Asp Cys Pro Val  
 385                          390                          395                          400  
 Thr Ala Leu Gln Lys Lys Thr Gln Gly Tyr Leu Gly Lys  
                           405                          410

<210> 86  
 <211> 58  
 <212> PRT  
 <213> Mus musculus

<400> 86  
 Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser  
 1                          5                          10                          15  
 Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu  
                           20                          25                          30  
 Ser Asn Lys Val Thr Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln  
           35                          40                          45  
 Leu Leu Leu Ala His Lys Asp Cys Pro Gly  
           50                          55

<210> 87  
 <211> 1031  
 <212> PRT  
 <213> Mus musculus

<400> 87  
 Met Thr Asn Pro Lys Gly Lys Arg Arg Gly Thr Gln Ser Met Phe Ser  
 1                          5                          10                          15  
 Arg Pro Phe Arg Lys His Gly Val Val Ser Leu Ala Thr Tyr Met Arg  
                           20                          25                          30  
 Ile Tyr Lys Lys Arg Asp Ile Val Asp Ile Lys Gly Met Gly Thr Val  
           35                          40                          45  
 Gln Lys Gly Met Pro Cys Lys Cys Tyr His Gly Lys Thr Gly Arg Val  
           50                          55                          60  
 Tyr Asn Val Thr Gln His Ala Met Gly Ile Ile Val Asn Lys Gln Val  
 65                          70                          75                          80  
 Lys Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Gln Ile Glu His Ile  
                           85                          90                          95  
 Lys His Ser Lys Ser Arg Asp Gly Phe Leu Lys Gln Gly Glu Ala Ala

			100					105					110			
His	Phe	Glu	Tyr	Leu	Leu	Tyr	Pro	Leu	His	Ser	Ala	Ser	Ile	Thr	Gly	
		115					120					125				
Leu	Ala	Thr	Cys	Ile	Arg	Lys	Pro	Leu	Ile	Ala	Thr	Cys	Ser	Leu	Asp	
	130					135					140					
Arg	Ser	Val	Arg	Ile	Trp	Asn	Tyr	Glu	Ser	Asn	Ser	Ser	Cys	Cys	Lys	
145					150					155					160	
Ala	Leu	Arg	Glu	Asp	Leu	Trp	Leu	Leu	Leu	Leu	Phe	His	Ile	Thr	Ala	
				165				170							175	
Pro	Ala	Thr	Leu	Ser	Ser	Pro	Pro	Val	Ile	Phe	Phe	Cys	Thr	Leu	Glu	
			180					185					190			
Leu	Tyr	Lys	Glu	Tyr	Gln	Glu	Glu	Ala	Tyr	Thr	Val	Ser	Leu	His	Pro	
		195					200					205				
Ser	Gly	His	Tyr	Ile	Val	Val	Gly	Phe	Ala	Asp	Lys	Leu	Arg	Leu	Met	
	210					215					220					
Asn	Leu	Leu	Ile	Asp	Asp	Ile	Arg	Ser	Phe	Lys	Glu	Tyr	Ser	Val	Arg	
225					230					235					240	
Gly	Cys	Lys	Glu	Cys	Ala	Phe	Ser	Asn	Gly	Gly	His	Leu	Phe	Ala	Ala	
				245				250							255	
Val	Asn	Gly	Asn	Val	Ile	His	Ile	Phe	Thr	Thr	Thr	Asn	Leu	Glu	Asn	
			260					265					270			
Ile	Asn	Asn	Leu	Lys	Gly	His	Thr	Gly	Lys	Arg	Glu	Thr	Glu	Cys	Val	
		275					280					285				
Leu	Lys	Val	Cys	Ser	Tyr	Asn	Ser	Val	Thr	Ile	Ser	Pro	Asp	Gly	Lys	
	290					295					300					
Val	Ile	Phe	Ala	Val	Gly	Ser	Asp	Gln	Thr	Leu	Lys	Glu	Ile	Ala	Asp	
305					310					315					320	
Ser	Leu	Ile	Leu	Arg	Glu	Ile	Pro	Ala	Phe	Asp	Val	Val	Tyr	Thr	Ala	
				325				330							335	
Ile	Thr	Ile	Ser	His	Ser	Gly	Arg	Met	Ile	Phe	Val	Gly	Thr	Ser	Val	
			340					345					350			
Gly	Thr	Ile	Arg	Ala	Met	Lys	Tyr	Pro	Leu	Pro	Leu	Gln	Arg	Glu	Phe	
		355					360					365				
Asn	Glu	Tyr	Gln	Ala	His	Ala	Gly	Pro	Val	Thr	Lys	Ile	Leu	Leu	Thr	
	370					375					380					
Phe	Asp	Asp	Gln	Phe	Leu	Leu	Thr	Val	Ser	Glu	Asp	Gly	Cys	Leu	Phe	
385					390					395					400	
Thr	Trp	Lys	Val	Phe	Asp	Lys	Glu	Gly	Arg	Gly	Ile	Lys	Arg	Glu	Arg	
			405					410							415	
Glu	Val	Gly	Phe	Ala	Glu	Glu	Val	Leu	Val	Thr	Lys	Thr	Asp	Met	Glu	
		420						425					430			
Glu	Lys	Ile	Leu	His	Arg	Asn	Leu	Ala	Thr	Glu	Phe	Arg	Arg	Pro	Met	
		435					440									

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Ser Lys His Leu Glu Cys Pro Thr Ser Glu Thr Gly Pro Leu Thr Thr  
 450 455 460  
 Ile Asn Ile Ser Pro Val Gln Pro Arg Pro Trp Gly His Val Leu Thr  
 465 470 475 480  
 Cys Arg Thr Pro Val Ser Thr Asp Ser Ala Val Ala Ser Thr Arg Gly  
 485 490 495  
 Ser Val Asp Ser Ala Val Lys Pro Asp Arg Ser Thr Pro Thr Gln Glu  
 500 505 510  
 Val Arg Ile Pro Pro Lys Pro Ala Ser Gly Val His Thr Arg Cys Gln  
 515 520 525  
 Leu Gly Val Gln Lys Gln Met Glu His Val Ser Val Val Met Glu Val  
 530 535 540  
 Arg Glu Thr Asn Arg Gln Arg Gln Gly Gly Gly Ala Arg Asn Val Ile  
 545 550 555 560  
 Lys Ala Gln Ile Met Leu Glu Leu Lys Thr Arg Val Glu Glu Leu Lys  
 565 570 575  
 Met Glu Asn Glu Tyr Gln Leu Arg Leu Lys Asp Met Asn Tyr Ser Glu  
 580 585 590  
 Lys Ile Lys Glu Leu Thr Asp Lys Phe Ile Gln Glu Met Glu Ser Leu  
 595 600 605  
 Lys Thr Lys Asn Gln Val Leu Lys Thr Glu Lys Glu Lys Gln Asp Ile  
 610 615 620  
 Ser His Arg Glu His Leu Glu Asp Leu Ile Glu Arg Gln Ser Arg Glu  
 625 630 635 640  
 Leu Gln Asp Leu Glu Cys Cys Asn Asn Gln Lys Leu Leu Leu Glu Tyr  
 645 650 655  
 Glu Lys Tyr Gln Glu Leu Gln Leu Lys Ser Gln Arg Met Gln Glu Glu  
 660 665 670  
 Tyr Glu Lys Gln Leu Arg Asp Asn Asp Glu Thr Lys Ser Gln Ala Leu  
 675 680 685  
 Glu Glu Leu Thr Glu Phe Tyr Glu Ala Lys Leu Gln Glu Lys Thr Gly  
 690 695 700  
 Leu Leu Glu Glu Ala Leu Ser Thr Ala Ala Ser Pro Pro Leu Pro Ser  
 705 710 715 720  
 Ala His Val Leu Ser Pro Phe Pro Thr Leu Ser Gln Ala Gln Glu Asp  
 725 730 735  
 Val Arg Gln Gln Leu Arg Glu Phe Glu Glu Thr Lys Lys Gln Ile Glu  
 740 745 750  
 Glu Asp Glu Asp Arg Glu Ile Gln Asp Ile Lys Thr Lys Tyr Glu Arg  
 755 760 765  
 Lys Leu Arg Asp Glu Lys Glu Ser Asn Leu Arg Leu Lys Gly Glu Thr  
 770 775 780  
 Gly Ile Met Arg Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu

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785		790		795		800
Arg Thr Asn Asp Ile	Glu Leu Leu Lys Thr	Glu Gln Val Lys Leu Gln				
	805		810			815
Gly Val Ile Arg Ser	Leu Glu Lys Asp Ile	Gln Gly Leu Lys Arg Glu				
	820		825			830
Ile Gln Glu Arg Asp	Glu Thr Ile Gln Asp Lys	Glu Lys Arg Ile Tyr				
	835		840			845
Asp Leu Lys Lys Lys	Asn Gln Glu Leu Glu Lys	Phe Lys Phe Val Leu				
	850		855			860
Asp Tyr Lys Ile Lys	Glu Leu Lys Lys Gln Ile	Glu Pro Arg Glu Asn				
	865		870			875
Glu Ile Lys Val Met	Lys Glu Gln Ile Gln	Glu Asn Pro Val Asn His				
	885		890			895
Trp Leu Arg Ser Arg	Glu Arg Glu Cys Val Thr	Gln Pro Arg His Leu				
	900		905			910
Arg Leu Pro Ala Pro	Gln Asn Lys Leu Asp Gly	Asn Leu Ala Cys Gly				
	915		920			925
Pro Val Arg Gly Arg	Leu Cys His Ser Asp Ala	Thr Ser Gly Ala Leu				
	930		935			940
Asn Val Gln Gly Ile	Leu Cys Leu Phe His Leu	Pro Phe Pro Cys Asp				
	945		950			955
Arg Thr Pro Ser Phe	Phe Pro Gly Glu Ala Cys	Leu Leu Val Phe Ser				
	965		970			975
Leu Leu Ile Asp Val	Leu Cys Arg Pro Thr	Ser Asp Val Pro Val Ala				
	980		985			990
Ala Gly Asp Phe Leu	Pro Cys Gly Gly Pro	Leu His Leu Pro Pro Glu				
	995		1000			1005
Leu His His Leu Thr	Val Ile Arg Thr Asn Ala	Ser Pro Gln Lys				
	1010		1015			1020
Cys Tyr Pro Pro Thr	Ser Pro Leu					
	1025		1030			

&lt;210&gt; 88

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 88

Lys Lys Phe Ser Ser	Leu Gln Lys Glu Ile	Glu Glu Arg Thr Asn Asp
1	5	10
		15
Ile Glu Leu Leu Lys	Ser Glu Arg Met Lys	Leu Gln Gly Ile Ile Arg
	20	25
		30
Ser Leu Glu Lys Asp	Ile Gln Gly Leu Lys	Arg Glu Ile Gln Glu Arg

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35	40	45
Asp Glu Thr Ile Gln Asp Met Glu Lys Leu Asp Tyr Lys Asp Asp Tyr		
50	55	60
Asn Ser Asn Leu Glu Ile		
65	70	

<210> 89  
 <211> 56  
 <212> PRT  
 <213> Mus musculus

<400> 89
Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp
1 5 10 15
Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg
20 25 30
Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg
35 40 45
Asp Glu Thr Ile Gln Asp Met Glu
50 55

<210> 90  
 <211> 217  
 <212> PRT  
 <213> Mus musculus

<400> 90
Met Glu Val Glu Asn Glu Ala His Cys Cys Pro Gly Ser Ser Ser Gly
1 5 10 15
Gly Ser Arg Glu Tyr Lys Val Val Met Leu Gly Ala Gly Gly Val Gly
20 25 30
Lys Ser Ala Val Thr Met Gln Phe Ile Ser His Gln Phe Pro Asp Tyr
35 40 45
His Asp Pro Thr Ile Glu Asp Ala Tyr Lys Thr Gln Val Arg Ile Asp
50 55 60
Asn Glu Pro Ala Tyr Leu Asp Ile Leu Asp Thr Ala Gly Gln Ala Glu
65 70 75 80
Phe Thr Ala Met Arg Glu Gln Tyr Met Arg Gly Gly Glu Gly Phe Ile
85 90 95
Ile Cys Tyr Ser Val Thr Asp Arg Gln Ser Phe Gln Glu Ala Ala Lys
100 105 110
Phe Lys Glu Leu Ile Phe Gln Val Arg His Thr Tyr Glu Ile Pro Leu
115 120 125

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Val Leu Val Gly Asn Lys Ile Asp Leu Glu Gln Phe Arg Gln Val Ser  
 130 135 140  
 Thr Glu Glu Gly Met Asn Leu Ala Arg Asp Tyr Asn Cys Ala Phe Phe  
 145 150 155 160  
 Glu Thr Ser Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Phe Gln Gly  
 165 170 175  
 Leu Val Arg Glu Ile Arg Arg Lys Glu Ser Met Leu Ser Leu Val Glu  
 180 185 190  
 Arg Lys Leu Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser  
 195 200 205  
 Leu Lys Lys Lys Arg Glu Asn Met Leu  
 210 215

<210> 91  
 <211> 50  
 <212> PRT  
 <213> Mus musculus

<400> 91  
 Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Leu Gln Gly Leu Val Arg  
 1 5 10 15  
 Glu Ile Arg Arg Lys Glu Ser Met Leu Pro Leu Val Glu Arg Lys Leu  
 20 25 30  
 Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser Leu Lys Lys  
 35 40 45  
 Lys Arg  
 50

<210> 92  
 <211> 140  
 <212> PRT  
 <213> Mus musculus

<400> 92  
 Gly Ala Thr Val Ile Thr Asn Leu Leu Ser Ala Ile Pro Tyr Ile Gly  
 1 5 10 15  
 Thr Thr Leu Val Glu Trp Ile Trp Gly Gly Phe Ser Val Asp Lys Ala  
 20 25 30  
 Thr Leu Thr Arg Phe Phe Ala Phe His Phe Ile Leu Pro Phe Ile Ile  
 35 40 45  
 Ala Ala Leu Ala Ile Val His Leu Leu Phe Leu His Glu Thr Gly Ser  
 50 55 60  
 Asn Asn Pro Thr Gly Leu Asn Ser Asp Ala Asp Lys Ile Pro Phe His

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65                      70                      75                      80  
 Pro Tyr Tyr Thr Ile Lys Asp Ile Leu Gly Ile Leu Ile Met Phe Leu  
                                  85                      90                      95  
 Ile Leu Met Thr Leu Val Leu Phe Phe Pro Asp Met Leu Gly Asp Pro  
                                  100                      105                      110  
 Asp Asn Tyr Met Pro Ala Asn Pro Leu Asn Thr Pro Pro His Ile Lys  
                                  115                      120                      125  
 Pro Glu Trp Tyr Phe Leu Phe Ala Tyr Ala Ile Leu  
                                  130                      135                      140

<210> 93  
 <211> 41  
 <212> PRT  
 <213> Mus musculus

<400> 93  
 Ser Asp Ala Asp Lys Ile Pro Phe His Pro Tyr Tyr Thr Ile Lys Asn  
 1                      5                      10                      15  
 Ile Leu Gly Ile Leu Ile Ile Phe Leu Ile Leu Ile Thr Leu Val Leu  
                                  20                      25                      30  
 Phe Phe Pro Asp Ile Leu Gly Asp Pro  
                                  35                      40

<210> 94  
 <211> 311  
 <212> PRT  
 <213> Mus musculus

<400> 94  
 Met Lys Ala Leu Trp Ala Val Leu Leu Val Thr Leu Leu Thr Gly Cys  
 1                      5                      10                      15  
 Leu Ala Glu Gly Glu Pro Glu Val Thr Asp Gln Leu Glu Trp Gln Ser  
                                  20                      25                      30  
 Asn Gln Pro Trp Glu Gln Ala Leu Asn Arg Phe Trp Asp Tyr Leu Arg  
                                  35                      40                      45  
 Trp Val Gln Thr Leu Ser Asp Gln Val Gln Glu Glu Leu Gln Ser Ser  
                                  50                      55                      60  
 Gln Val Thr Gln Glu Leu Thr Ala Leu Met Glu Asp Thr Met Thr Glu  
 65                      70                      75                      80  
 Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro Val Ala  
                                  85                      90                      95  
 Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Val Gln Ala Ala Gln Ala  
                                  100                      105                      110

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Arg Leu Gly Ala Asp Met Glu Asp Leu Arg Asn Arg Leu Gly Gln Tyr  
 115 120 125  
 Arg Asn Glu Val His Thr Met Leu Gly Gln Ser Thr Glu Glu Ile Arg  
 130 135 140  
 Ala Arg Leu Ser Thr His Leu Arg Lys Met Arg Lys Arg Leu Met Arg  
 145 150 155 160  
 Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr Lys Ala Gly Ala  
 165 170 175  
 Arg Glu Gly Ala Glu Arg Gly Val Ser Ala Ile Arg Glu Arg Leu Gly  
 180 185 190  
 Pro Leu Val Glu Gln Gly Arg Gln Arg Thr Ala Asn Leu Gly Ala Gly  
 195 200 205  
 Ala Ala Gln Pro Leu Arg Asp Arg Ala Gln Ala Phe Gly Asp Arg Ile  
 210 215 220  
 Arg Gly Arg Leu Glu Glu Val Gly Asn Gln Ala Arg Asp Arg Leu Glu  
 225 230 235 240  
 Glu Val Arg Glu His Met Glu Glu Val Arg Ser Lys Met Glu Glu Gln  
 245 250 255  
 Thr Gln Gln Ile Arg Leu Gln Ala Glu Ile Phe Gln Ala Arg Leu Lys  
 260 265 270  
 Gly Trp Phe Glu Pro Ile Val Glu Asp Met His Arg Gln Trp Ala Asn  
 275 280 285  
 Leu Met Glu Lys Ile Gln Ala Ser Val Ala Thr Asn Pro Ile Ile Thr  
 290 295 300  
 Pro Val Ala Gln Glu Asn Gln  
 305 310

<210> 95  
 <211> 31  
 <212> PRT  
 <213> Mus musculus

<400> 95  
 Thr Glu Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro  
 1 5 10 15  
 Val Ala Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Glu Gln Gly  
 20 25 30

<210> 96  
 <211> 695  
 <212> PRT  
 <213> Mus musculus



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&lt;400&gt; 96

Met	Leu	Pro	Ser	Leu	Ala	Leu	Leu	Leu	Leu	Ala	Ala	Trp	Thr	Val	Arg
1				5					10					15	
Ala	Leu	Glu	Val	Pro	Thr	Asp	Gly	Asn	Ala	Gly	Leu	Leu	Ala	Glu	Pro
			20					25					30		
Gln	Ile	Ala	Met	Phe	Cys	Gly	Lys	Leu	Asn	Met	His	Met	Asn	Val	Gln
		35					40					45			
Asn	Gly	Lys	Trp	Glu	Ser	Asp	Pro	Ser	Gly	Thr	Lys	Thr	Cys	Ile	Gly
	50					55					60				
Thr	Lys	Glu	Gly	Ile	Leu	Gln	Tyr	Cys	Gln	Glu	Val	Tyr	Pro	Glu	Leu
65					70					75					80
Gln	Ile	Thr	Asn	Val	Val	Glu	Ala	Asn	Gln	Pro	Val	Thr	Ile	Gln	Asn
			85						90					95	
Trp	Cys	Lys	Arg	Gly	Arg	Lys	Gln	Cys	Lys	Thr	His	Thr	His	Ile	Val
			100					105					110		
Ile	Pro	Tyr	Arg	Cys	Leu	Val	Gly	Glu	Phe	Val	Ser	Asp	Ala	Leu	Leu
		115					120					125			
Val	Pro	Asp	Lys	Cys	Lys	Phe	Leu	His	Gln	Glu	Arg	Met	Asp	Val	Cys
	130					135					140				
Glu	Thr	His	Leu	His	Trp	His	Thr	Val	Ala	Lys	Glu	Thr	Cys	Ser	Glu
145					150					155					160
Lys	Ser	Thr	Asn	Leu	His	Asp	Tyr	Gly	Met	Leu	Leu	Pro	Cys	Gly	Ile
			165						170					175	
Asp	Lys	Phe	Arg	Gly	Val	Glu	Phe	Val	Cys	Cys	Pro	Leu	Ala	Glu	Glu
			180					185					190		
Ser	Asp	Ser	Val	Asp	Ser	Ala	Asp	Ala	Glu	Glu	Asp	Asp	Ser	Asp	Val
		195					200					205			
Trp	Trp	Val	Gly	Ala	Asp	Thr	Asp	Tyr	Ala	Asp	Gly	Gly	Glu	Asp	Lys
	210				215						220				
Val	Val	Glu	Val	Ala	Glu	Glu	Glu	Glu	Val	Ala	Asp	Val	Glu	Glu	Glu
225					230					235					240
Glu	Ala	Asp	Asp	Asp	Glu	Asp	Val	Glu	Asp	Gly	Asp	Glu	Val	Glu	Glu
			245						250					255	
Glu	Ala	Glu	Glu	Pro	Tyr	Glu	Glu	Ala	Thr	Glu	Arg	Thr	Thr	Ser	Thr
			260					265					270		
Ala	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Glu	Ser	Val	Glu	Glu	Val	Val	Arg
		275					280					285			
Val	Pro	Thr	Thr	Ala	Ala	Ser	Thr	Pro	Asp	Ala	Val	Asp	Lys	Tyr	Leu
	290					295					300				
Glu	Thr	Pro	Gly	Asp	Glu	Asn	Glu	His	Ala	His	Phe	Gln	Lys	Ala	Lys
305					310					315					320
Glu	Arg	Leu	Glu	Ala	Lys	His	Arg	Glu	Arg	Met	Ser	Gln	Val	Met	Arg
			325						330					335	

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Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp  
 340 345 350  
 Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu  
 355 360 365  
 Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala  
 370 375 380  
 Arg Val Glu Ala Met Leu Asn Asp Arg Arg Arg Leu Asp Leu Glu Asn  
 385 390 395 400  
 Tyr Ile Ile Ala Leu Gln Ala Val Pro Pro Arg Pro His His Val Phe  
 405 410 415  
 Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His  
 420 425 430  
 Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala  
 435 440 445  
 Thr Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu  
 450 455 460  
 Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala  
 465 470 475 480  
 Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn  
 485 490 495  
 Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser  
 500 505 510  
 Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr  
 515 520 525  
 Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln  
 530 535 540  
 Pro Trp His Pro Phe Gly Val Asp Ser Val Pro Ala Asn Thr Glu Asn  
 545 550 555 560  
 Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr  
 565 570 575  
 Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser  
 580 585 590  
 Glu Val Lys Met Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val  
 595 600 605  
 Arg His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
 610 615 620  
 Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val  
 625 630 635 640  
 Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile  
 645 650 655  
 His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg  
 660 665 670  
 His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys

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675 680 685  
Phe Phe Glu Gln Met Gln Asn  
690 695

<210> 97  
<211> 68  
<212> PRT  
<213> Mus musculus

<400> 97  
Ser Glu Pro Arg Ile Ser Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu  
1 5 10 15  
Thr Glu Thr Lys Thr Thr Val Glu Leu Leu Pro Val Asn Gly Glu Phe  
20 25 30  
Ser Leu Asp Asp Leu Gln Pro Trp His Pro Ser Gly Val Asp Ser Val  
35 40 45  
Pro Ala Asn Thr Glu Asn Glu Val Glu Pro Val Asp Ala Arg Pro Ala  
50 55 60  
Ala Asp Arg Gly  
65

<210> 98  
<211> 983  
<212> PRT  
<213> Mus musculus

<400> 98  
Met Lys Ala Gln Gln Ala Met Asp Lys Tyr Glu Gly Asp Ser Lys Ala  
1 5 10 15  
Arg Glu Thr Arg Ser Thr Ala Ala Met Val Gly Trp Arg Ser Asp Arg  
20 25 30  
Gly Leu Val Thr Cys Thr Arg Leu Arg Met Gln Asn Gly Ser Ser Leu  
35 40 45  
Lys Ala Phe Arg Ser Arg Val Gly Lys Trp Gly Glu Pro Ser Ser Arg  
50 55 60  
Ser His Lys Val Leu Lys Thr Ser Glu Thr Ser Gln Asp Ile Gln Lys  
65 70 75 80  
Val Ser Arg Glu Glu Ser Pro Ser Gln Leu Thr Ser Ala Val Pro Ala  
85 90 95  
Gln Arg Asn Cys Gln Pro Gly Ser Ala Ala Val Ile Asn Met Leu Arg  
100 105 110  
Gly Gly Gly Gly Val Arg Ser Pro Trp Thr Asp His His Ile Arg Gln  
115 120 125

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Arg	Thr	Asp	His	His	Ile	Arg	Gln	Pro	Leu	Phe	Pro	Ser	Arg	Arg	Ser	130	135	140
Pro	Gln	Glu	Asn	Glu	Asp	Asp	Asp	Asp	Asp	Tyr	Gln	Met	Phe	Val	Pro	145	150	155
Ser	Phe	Ser	Ser	Ser	Asp	Leu	Asn	Ser	Thr	Arg	Leu	Cys	Glu	Glu	Asn	165	170	175
Ala	Ser	Ser	Arg	Pro	Cys	Ser	Trp	His	Leu	Gly	Leu	Ile	Glu	Pro	Thr	180	185	190
Glu	Ile	Ser	Ser	Ser	Gly	His	Arg	Ile	Val	Arg	Arg	Ala	Ser	Ser	Ala	195	200	205
Gly	Glu	Ser	Asn	Ala	Cys	Pro	Pro	Glu	Val	Arg	Ile	Arg	Asp	Cys	Asp	210	215	220
Asp	Ser	Gln	Tyr	Cys	Pro	Gly	Arg	Gln	Leu	Gln	Asn	Ser	Pro	Arg	Pro	225	230	235
Gly	Gly	Glu	Arg	Gly	Met	Thr	Pro	Tyr	Gly	Ser	Ser	Val	Glu	Leu	Thr	245	250	255
Ile	Asp	Asp	Ile	Asp	His	Val	Tyr	Asp	Asn	Ile	Ser	Phe	Glu	Asp	Leu	260	265	270
Lys	Leu	Met	Val	Ala	Lys	Arg	Asp	Glu	Thr	Glu	Cys	Ser	Phe	Ser	Lys	275	280	285
Pro	Ser	Arg	Asp	Ser	Val	Arg	Pro	Lys	Ser	Thr	Pro	Glu	Leu	Ala	Phe	290	295	300
Ser	Lys	Arg	Gln	Val	Ser	His	Ser	Thr	Ser	Ser	Leu	His	Ser	Arg	Lys	305	310	315
Glu	Ala	Gly	Leu	Gly	Gly	Gln	Glu	Ala	Ser	Thr	Gln	Ser	Val	His	Glu	325	330	335
His	Gln	Glu	Val	Glu	Glu	Asn	Ile	Tyr	Asp	Thr	Ile	Gly	Leu	Pro	Asp	340	345	350
Pro	Pro	Ser	Met	Asn	Leu	Asn	His	Ser	Ser	Leu	His	Gln	Pro	Lys	Arg	355	360	365
Ser	Thr	Phe	Leu	Gly	Leu	Glu	Ala	Asp	Phe	Ala	Cys	Cys	Asp	Ser	Leu	370	375	380
Arg	Pro	Phe	Val	Ser	Gln	Asp	Ser	Leu	Gln	Phe	Ser	Glu	Asp	Asp	Ile	385	390	395
Ser	Tyr	His	Gln	Gly	Pro	Ser	Asp	Thr	Glu	Tyr	Leu	Ser	Leu	Leu	Tyr	405	410	415
Asp	Ser	Pro	Arg	Cys	Asn	Leu	Pro	Ile	Ala	Asp	Lys	Ala	Leu	Ser	Asp	420	425	430
Lys	Leu	Ser	Glu	Glu	Val	Asp	Glu	Ile	Trp	Asn	Asp	Leu	Glu	Asn	Tyr	435	440	445
Ile	Lys	Lys	Asn	Glu	Asp	Lys	Ser	Arg	Asp	Arg	Leu	Leu	Ala	Ala	Phe	450	455	460
Pro	Val	Ser	Lys	Asp	Asp	Ala	Pro	Glu	Arg	Leu	Tyr	Val	Asp	Ser	Thr			

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465		470		475		480
His Glu Leu Gly Arg Asp Thr Gly His Ala Thr Ser Met Leu Ala Leu						
	485		490		495	
Pro Thr Ser Gln Thr Phe Leu Leu Pro Gly Lys Ser Arg Val Val Arg						
	500		505		510	
Ala Ser Arg Ala Asn Cys Ser Leu Asp Asn Asp Ile Ile Ser Thr Glu						
	515		520		525	
Gly Ser Phe Leu Ser Leu Asn Gln Leu Ser Leu Ala Ser Asp Gly Pro						
	530		535		540	
Pro Val Asp Asn Pro Tyr Asp Leu Ala Asn Cys Ser Leu Pro Gln Thr						
545		550		555		560
Asp Pro Glu Asn Pro Asp Pro Gly Met Glu Val Thr Asp Lys Thr Lys						
	565		570		575	
Ser Arg Val Phe Met Met Ala Arg Gln Tyr Ser Gln Lys Ile Lys Lys						
	580		585		590	
Val Asn Gln Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro						
	595		600		605	
Ser Ser Gln His Arg Pro Ser His Lys Asp Leu Val Ala Ile Leu Glu						
	610		615		620	
Glu Lys Arg Gln Gly Gly Pro Ala Ile Gly Ala Arg Ile Ala Glu Tyr						
625		630		635		640
Ser Gln Leu Tyr Asp Gln Ile Val Phe Arg Glu Thr Pro Leu Lys Ala						
	645		650		655	
Gln Lys Asp Gly Trp Ala Ser Pro Gln Gly Pro Thr Leu His Arg Pro						
	660		665		670	
Val Ser Pro Pro Gln Ala Gln Gly Ala Gly Glu Asp Trp Leu Trp His						
	675		680		685	
Ser Pro Tyr Ser Asn Gly Glu Leu Ala Asp Phe Ser Pro Gln Thr Glu						
	690		695		700	
Gln Asp Ser Lys Ser Lys Tyr Pro Ile Thr Leu Glu Ser Thr Thr Lys						
705		710		715		720
Ile Arg Pro Arg Gln Leu Ser Gly Ala Cys Ser Val Pro Ser Leu Gln						
	725		730		735	
Val Ser Asp Pro Leu Leu Gly Ser Val Gln Gln Arg Cys Ser Val Val						
	740		745		750	
Val Ser Gln Pro His Lys Glu Asn Ser Gly Gln Ser Pro Leu Tyr Asn						
	755		760		765	
Ser Leu Gly Arg Lys Ala Ile Ser Ala Lys Pro Gln Pro Tyr Ser Arg						
	770		775		780	
Pro Gln Ser Ser Ser Ser Ile Leu Ile Asn Lys Ser Leu Asp Ser Ile						
785		790		795		800
Asn Tyr Pro Ser Glu Thr Glu Thr Lys Gln Leu Leu Ser Ser Gln Lys						
	805		810		815	

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Ser Pro Arg Gly Ala Ser Gln Gln Asp Leu Pro Ser Gly Leu Ala Asn  
                   820                                  825                                  830  
 Ser Cys Gln Gln Asp Arg Gly Lys Arg Ser Asp Leu Thr Leu Gln Asp  
                   835                                  840                                  845  
 Ser Gln Lys Val Leu Val Val Asn Arg Asn Leu Pro Leu Ser Ala Gln  
                   850                                  855                                  860  
 Ile Ala Thr Gln Asn Tyr Phe Cys Asn Phe Lys Asp Pro Glu Gly Asp  
 865                                  870                                  875                                  880  
 Glu Asp Asp Tyr Val Glu Ile Lys Ser Glu Glu Asp Glu Val Arg Leu  
                                   885                                  890                                  895  
 Asp Leu Ser Pro Arg Arg Gly Arg Lys Ser Asp Pro Gln Thr Pro Asp  
                   900                                  905                                  910  
 Pro Asp Cys Ser Asp Ser Ile Cys Ser His Ser Thr Pro Tyr Ser Leu  
                   915                                  920                                  925  
 Lys Glu Pro Val Ser Gly Arg Leu Gly Leu Pro Pro Tyr Leu Thr Ala  
                   930                                  935                                  940  
 Cys Lys Asp Ser Asp Lys Leu Asn Asp Tyr Leu Trp Arg Gly Pro Ser  
 945                                  950                                  955                                  960  
 Pro Asn Gln Gln Asn Ile Val Gln Ser Leu Arg Glu Lys Phe Gln Cys  
                                   965                                  970                                  975  
 Leu Ser Ser Ser Ser Phe Ala  
                   980

<210> 99  
 <211> 46  
 <212> PRT  
 <213> Mus musculus

<400> 99  
 Phe Met Met Ala Arg Gln Tyr Ser Gln Lys Ile Lys Lys Val Asn Gln  
 1                  5                                  10                                  15  
 Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro Ser Ser Gln  
                   20                                  25                                  30  
 His Arg Pro Ser His Lys Asp Leu Ala Ala Ile Leu Glu Lys  
                   35                                  40                                  45

<210> 100  
 <211> 412  
 <212> PRT  
 <213> Mus musculus

<400> 100  
 Met Ala Asn Val Ala Asp Thr Lys Leu Tyr Asp Ile Leu Gly Val Pro

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1	5	10	15
Pro Gly Ala Ser Glu Asn Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala			
	20	25	30
Lys Glu Tyr His Pro Asp Lys Asn Pro Asn Ala Gly Asp Lys Phe Lys			
	35	40	45
Glu Ile Ser Phe Ala Tyr Glu Val Leu Ser Asn Pro Glu Lys Arg Glu			
	50	55	60
Leu Tyr Asp Arg Tyr Gly Glu Gln Gly Leu Arg Glu Gly Ser Gly Gly			
65	70	75	80
Gly Gly Gly Met Asp Asp Ile Phe Ser His Ile Phe Gly Gly Gly Leu			
	85	90	95
Phe Gly Phe Met Gly Asn Gln Ser Arg Ser Arg Asn Gly Arg Arg Arg			
	100	105	110
Gly Glu Asp Met Met His Pro Leu Lys Val Ser Leu Glu Asp Leu Tyr			
	115	120	125
Asn Gly Lys Thr Thr Lys Leu Gln Leu Ser Lys Asn Val Leu Cys Ser			
	130	135	140
Ala Cys Ser Gly Gln Gly Gly Lys Ser Gly Ala Val Gln Lys Cys Ser			
145	150	155	160
Ala Cys Arg Gly Arg Gly Val Arg Ile Met Ile Arg Gln Leu Ala Pro			
	165	170	175
Gly Met Val Gln Gln Met Gln Ser Val Cys Ser Asp Cys Asn Gly Glu			
	180	185	190
Gly Glu Val Ile Asn Glu Lys Asp Arg Cys Lys Lys Cys Glu Gly Lys			
	195	200	205
Lys Val Ile Lys Glu Val Lys Ile Leu Glu Val His Val Asp Lys Gly			
	210	215	220
Met Lys His Gly Gln Arg Ile Thr Phe Thr Gly Glu Ala Asp Gln Ala			
225	230	235	240
Pro Gly Val Glu Pro Gly Asp Ile Val Leu Leu Leu Gln Glu Lys Glu			
	245	250	255
His Glu Val Phe Gln Arg Asp Gly Asn Asp Leu His Met Thr Tyr Lys			
	260	265	270
Ile Gly Leu Val Glu Ala Leu Cys Gly Phe Gln Phe Thr Phe Lys His			
	275	280	285
Leu Asp Ala Arg Gln Ile Val Val Lys Tyr Pro Pro Gly Lys Val Ile			
	290	295	300
Glu Pro Gly Cys Val Arg Val Val Arg Gly Glu Gly Met Pro Gln Tyr			
305	310	315	320
Arg Asn Pro Phe Glu Lys Gly Asp Leu Tyr Ile Lys Phe Asp Val Gln			
	325	330	335
Phe Pro Glu Asn Asn Trp Ile Asn Pro Asp Lys Leu Ser Glu Leu Glu			
	340	345	350

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Asp Leu Leu Pro Ser Arg Pro Glu Val Pro Asn Val Ile Gly Glu Thr  
           355                          360                          365  
 Glu Glu Val Glu Leu Gln Glu Phe Asp Ser Thr Arg Gly Ser Gly Gly  
       370                          375                          380  
 Gly Gln Arg Arg Glu Ala Tyr Asn Asp Ser Ser Asp Glu Glu Ser Ser  
 385                          390                          395                          400  
 Ser His His Gly Pro Gly Val Gln Cys Ala His Gln  
                           405                          410

<210> 101  
 <211> 25  
 <212> PRT  
 <213> Mus musculus

<400> 101  
 Leu Ser Asn Pro Glu Lys Arg Glu Leu Tyr Asp Arg Tyr Gly Glu Gln  
 1                  5                          10                          15  
 Gly Leu Arg Glu Gly Ser Gly Gly Gly  
                   20                          25

<210> 102  
 <211> 29  
 <212> PRT  
 <213> Mus musculus

<400> 102  
 Ala His Ser Phe Ser Val Phe Arg Leu Pro Ser Trp Trp Ile Val Gly  
 1                  5                          10                          15  
 Trp Trp Ser Lys Gly Gly Val Gly Ser Asp Leu Glu Met  
                   20                          25

<210> 103  
 <211> 35  
 <212> PRT  
 <213> Mus musculus

<400> 103  
 Pro Asp Ile Lys His Pro Gly Asn Leu Glu His Tyr Ile Lys Arg Val  
 1                  5                          10                          15  
 Asn Leu Arg Ile Ile Ala Ile Glu Glu Gly Glu Lys Ser Gln Leu Lys  
                   20                          25                          30  
 Gly Pro Lys  
           35



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<210> 104  
 <211> 573  
 <212> DNA  
 <213> Mus musculus

<400> 104  
 atgccattga ggcattctagc agacagattg gggcatcttg cagacagact gaggcattcta 60  
 acagacagat tgaggcatct agcagacaga ctgaggcatc taacagacag actgaggcat 120  
 ctagcagaca gactgaagca tctagcagac agactgaaac atctaacaga cagattgggg 180  
 catctaacag acagatcatg gcatctaaca gacagattgg ggcattctaac agacagattg 240  
 aggcatctaa cagacagatt ggggcatcta acagacagac agaggatatct agcagacaga 300  
 ttgaggcatc taacagacag attggggcat ctaacagaca aactgaggca tctaacagac 360  
 agattggggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 420  
 gacagactga tgcattctaac agacagactg atgcatctaa cagacagact gaggcattcta 480  
 gcagacagac agaggcatct agcagacaga cagaggcatc tagcagacag actgaggcat 540  
 ctagcagaca aattgaggca tcagctgcag ctg 573

<210> 105  
 <211> 213  
 <212> DNA  
 <213> Mus musculus

<400> 105  
 attgaggcat ctaacagaca gattggggca tctaacagac aaactgagge atctaacaga 60  
 cagattgggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 120  
 gacagactga tgcattctaac agacagactg atgcatctaa cagacagact gaggcattcta 180  
 gcagacagac agaggcatct agcagacaga ctg 213

<210> 106  
 <211> 165  
 <212> DNA  
 <213> Mus musculus

<400> 106  
 gacaaactga ggcattctaac agacagattg gggcatctaa cagacagact gaggcattcta 60  
 acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcat 120  
 ctaacagaca gactgaggca tctagcagac agacagagge acgac 165

<210> 107  
 <211> 135  
 <212> DNA  
 <213> Mus musculus

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&lt;400&gt; 107

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat	120
ctagcagtca gacag	135

&lt;210&gt; 108

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 108

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat	120
ctagcagtca gacag	135

&lt;210&gt; 109

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 109

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
acagacagac tgatgcatct aacagacaga ctgatgcac taacagatag actgaggcat	120
ctagcagtca gacag	135

&lt;210&gt; 110

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 110

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
acggacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat	120
ctagcagtca gacag	135

&lt;210&gt; 111

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 111

gacagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta	60
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acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgagacat 120  
ctagcagtca gacag 135

&lt;210&gt; 112

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 112

gacagattgg ggcgtctaac agacagactg aggcatctaa cagacagatt ggggcatcta 60  
acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120  
ctagcagtca gacag 135

&lt;210&gt; 113

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 113

gacagattgg ggcgtctaac agacagactg aggcatctaa cagacagatt ggggcatcta 60  
acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120  
ctagcagtca gacag 135

&lt;210&gt; 114

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 114

gacagattgg ggcgtctaac agacagactg aggtatctaa cagacagatt ggggcatcta 60  
acagacagac tgatgcatct aacagacaga ctgatgcac taacagacag actgaggcat 120  
ctagcagtca gacag 135

&lt;210&gt; 115

&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 115

gacagattgg ggcgtctaac agacagactg aggcatctaa cagacagatt ggggcatcta 60  
acagacagac tgatgcatct aacagacaga ctgacgcac taacagacag actgaggcat 120  
ctagcagtca gacag 135

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<210> 116  
 <211> 135  
 <212> DNA  
 <213> Mus musculus

<400> 116  
 gacagattgg ggcattctaac agacagactg aagcattctaa cagacagatt ggggcattcta 60  
 acagacagac tgatccattct aacagacaga ctgatgcattc taacagacag actgaggcatt 120  
 ctagcagtcac gacag 135

<210> 117  
 <211> 135  
 <212> DNA  
 <213> Mus musculus

<400> 117  
 ggcagattgg ggcattctaac agacagactg aggcattctaa cagacagatt ggggcattcta 60  
 acagacagac tgatgcattct aacagacaga ctgatgcattc taacagacag actgaggcatt 120  
 ctagcagtcac gacag 135

<210> 118  
 <211> 114  
 <212> DNA  
 <213> Mus musculus

<400> 118  
 gacagattga ggcattctagc agacagactg aggcattctaa ccgacagact gaggcattcta 60  
 gcagacagac tgaagcattct agcagacaga ctgaaacattc taacaaacag aaag 114

<210> 119  
 <211> 552  
 <212> DNA  
 <213> Mus musculus

<400> 119  
 atgccattga ggcattctagc agacagattg gggcattctgg cagacagact gaggcattcta 60  
 acagacagat tgaggcattct agcagacaga ctgaggcattc taacagacag actgaggcatt 120  
 ctagcagaca gactgaggca tctagcagac agactgaaac atctaacaga cagattgggg 180  
 cattctaacag acagattcattg gcattctaaca gacagattgg ggcattctaac agacagattg 240  
 aggcattctaa cagacagatt ggggcattcta acagacagac agaggattct agcagacaga 300  
 ttgaggcattc taacagacag attggggcattc ctaacagaca gactgaggca tctaacagac 360  
 agattggggc atctaacaga cagactgagg cattctaacag acagattggg gcattctaaca 420  
 gacagactga tgcatctaac agacagactg aggcattctag cagacagaca gaggcattcta 480

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gcagacagac agaggcatct agcagacaga ctgaggcatc tagcagacaa attgaggcat 540  
cagctgcagc tg 552

<210> 120  
<211> 237  
<212> DNA  
<213> Mus musculus

<400> 120  
gaaaaagtga aaaccttgaa agcgcaaaac tccgagctgg catccacggc caacacgctc 60  
agggaacagg tggcactgct taagcagaaa gtcatgaacc acgttaacag tgggtgccaa 120  
ctcatgctaa cgcagcagtt gcaaactgtt tgggaacaga ctgtcagggc tgaggggcaa 180  
tggaagaaaa aaaataacag agacaaactt gagaacttga ctggttgca cagagaa 237

<210> 121  
<211> 228  
<212> DNA  
<213> Mus musculus

<400> 121  
cggatcaagg cagagaggaa gcgcatgagg aaccgcattg ccgcctccga gtgccggaaa 60  
aggaagctgg agcggatcgc tcggctagag gaaaaagtga aaaccttgaa agcgcaaaac 120  
tccgagctgg catccacggc caacatgctc aggaacagg tggcacagct taagcagaaa 180  
gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cacagcag 228

<210> 122  
<211> 149  
<212> DNA  
<213> Mus musculus

<400> 122  
gggcatctgg cagacagact gaggcatcta acagacagat tgaggcatct agcagacaga 60  
ctgaggcatc taacagacag actgaggcat ctagcagaca gactgaggca tctagcagac 120  
agactgaaac atctaacaga cagatatgg 149

<210> 123  
<211> 168  
<212> DNA  
<213> Mus musculus

<400> 123  
catctaacag acagactgag gcatctaaca gacagattgg ggcatttaac agacagactg 60  
aggcatctaa cagacagatt gaggcatcta acagacagac tgatgcatct aacagacaga 120

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ctggggcatc tagcagacag acagaggcat ctagcagaca gacagaga 168

<210> 124

<211> 132

<212> DNA

<213> Mus musculus

<400> 124

gcagacagat tggggcatct ggcagacaga ctgaggcatc taacagacag attgaggcat 60  
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<210> 125

<211> 132

<212> DNA

<213> Mus musculus

<400> 125

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ctagcagaca gactgagaca tctaacagac agactgaggc atttagcaga cagactgagg 120  
catctagcag ac 132

<210> 126

<211> 81

<212> DNA

<213> Mus musculus

<400> 126

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<210> 127

<211> 159

<212> DNA

<213> Mus musculus

<400> 127

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<210> 128

<211> 138

55/79

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 128

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gacagactga ggcattctaac agacagattg gggcattcta cagacagact gatgcattcta	120
acagacagac tgaggccc	138

&lt;210&gt; 129

&lt;211&gt; 117

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 129

gacagattga gccatttagc agacagactg aggcatctaa cagacagact gaggcatcta	60
acagacagat tggggcatct aacagacaga ctgaggcatc tagcagacag acagagg	117

&lt;210&gt; 130

&lt;211&gt; 117

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 130

gacagattga ggcatttagc agacagactg aggcatctaa cagacagact gaggcatcta	60
acagacagat tggggcatct aacagacaga ctgaggcatc tagcagacag acagagg	117

&lt;210&gt; 131

&lt;211&gt; 117

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 131

ggcagattga ggcatttagc agacagactg aggcatctaa cagacagact gaggcatcta	60
acagacagat tggggcatct aacagacaga ctgaggcatc tagcagacag acagagg	117

&lt;210&gt; 132

&lt;211&gt; 129

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 132

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aggcatctaa cagacagatt ggggcattcta acagacagac tgaggcatct aacagacaga	120

56/79

ttggggcaa 129

<210> 133

<211> 129

<212> DNA

<213> Mus musculus

<400> 133

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aggcatctaa cagacagatt ggggcatcta acagacagac tgaggcatct aacagacaga 120

ttggggcaa 129

<210> 134

<211> 228

<212> DNA

<213> Mus musculus

<400> 134

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tccgagctgg catccacggc caacatgctc agggaacagg tggcacagct taagcagaaa 180

gtcatgaacc acgttaacag tgggtgccaa ctcattgctaa cacagcag 228

<210> 135

<211> 132

<212> DNA

<213> Mus musculus

<400> 135

ttggggcatc taacagacag actgaggcat ctaacagaca gattggggca tctaacagac 60

agactgatgc atctaacaga cagactgagg catctagcag acagacagag gcatttagca 120

gacagacaga aa 132

<210> 136

<211> 108

<212> DNA

<213> Mus musculus

<400> 136

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agactgatgc atctaacaga cagactgagg catctagcag acaccag 108

<210> 137



57/79

&lt;211&gt; 132

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 137

gggcatctaa cagacagact gaggcatcta acggacagat tggggcatct aacagacaga	60
ctgaggcatc taacagacag attggggcat ctaacagaca gactgatgca tctaacagac	120
agactgaggc ac	132

&lt;210&gt; 138

&lt;211&gt; 132

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 138

gggcatctaa cagacagact gaggcatcta acagacagat tggggcatct aacagacaga	60
ctgaggcatc taacagacag attggggcat ctaacagaca gactgatgca tctaacagac	120
agactgaggc ac	132

&lt;210&gt; 139

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 139

aggcatctaa cagacagatt ggggcatcta acagacagac tgaggcatct aacagacaga	60
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agacagaggc atctagcaga caggcagagg cac	153

&lt;210&gt; 140

&lt;211&gt; 153

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 140

aggcatctaa cagacagatt ggggcatcta acagacagac tgaggcatct aacagacaga	60
ttggggcgtc taacagacag actgatgcat ctaacagaca gactgaggca tctagcagac	120
agacagaggc atctagcaga cagacagagg cac	153

&lt;210&gt; 141

&lt;211&gt; 1752

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

58/79

&lt;400&gt; 141

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ggaaatggac	cctccaatat	ggttcacccc	agcctggaca	cattcacccc	tgaggagctg	120
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gaagagcgcc	tgttgtttga	gatgcaaaagc	aaagaggtta	aggagcgcc	taaggccctg	300
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aagctgaaga	cccaggtgga	gcaggaagtg	gagcatctga	agatccaggt	gatgcgcctt	480
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gaagtggaaa	cactgagcat	tcaagtgacc	tctctgttta	aggagcttca	agaggcacac	960
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caagaacata	ataaggcact	gaaaacaatt	gaagaactaa	ccaagcaaca	ggcagaaaag	1260
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&lt;210&gt; 142

&lt;211&gt; 324

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 142

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tgtacagagg atgccaggag ttgtgctggag ttggaagaac tgactgtgag ccagcttctg 300  
ctttgcctaa gggaaggaaa ccaa 324

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<212> DNA  
<213> Mus musculus

<400> 143  
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aggatgaccg aaggagagac tgaaggggca atgaaggaga tgaagaactg ccctacaccc 180  
acaaga 186

<210> 144  
<211> 186  
<212> DNA  
<213> Mus musculus

<400> 144  
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aggatgaccg aaggagagac tgaaggggca atgaaggaga tgaagaactg ccctgcaccc 180  
acaaga 186

<210> 145  
<211> 186  
<212> DNA  
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<400> 145  
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tcagaactgc ggctcaaact caactccggc ggctcctcgg aagactcctt cgttgagatc 120  
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acaaga 186

<210> 146  
<211> 306  
<212> DNA  
<213> Mus musculus

<400> 146  
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60/79

gctctacacg	accaactgaa	ccgcctcaag	gttgaagaat	tagcccttca	atccatgata	120
aattctcgag	gaaggaccga	gacactgtct	tctcagcctg	cacctgaaca	gttatgtgat	180
atgtccctac	atgtagacaa	cgaagtgaca	ataaatcaga	ctacactgaa	gctgagcaca	240
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gattcg						306

<210> 147  
 <211> 249  
 <212> DNA  
 <213> Mus musculus

<400> 147	
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actaggccg	
	249

<210> 148  
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 <212> DNA  
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<400> 148	
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gaacagttat	gtgatatgtc cctacatgta gacaacgaag tgacaataaa tcagact 237

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<400> 149	
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gttgtgatct	ctaccctac acctaccatt gtacgtcctg gctccctgcc tctccactta 480

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ggttatgata	cacttcatcc	aactcttct	tcccaaacct	ctgtcatcac	acaggctcca	540
ccatccaaca	ggcaaatagg	atctcctact	ggctccctcc	ctctcgtcat	gcattcttgc	600
aatggacaga	ccatgcctat	gttgccaggg	cctccagtac	agatgccttc	tgttatttcg	660
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aacagtggct	ccatttctcc	ctctggccac	cctatgccgt	cagaagccaa	aatgagacta	780
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gatgccccat	cccctgccc	gccacaggtc	tctccagctc	agcccacccc	tagcactggg	960
ggacggcgac	ggcgtacagt	ggatgaagat	ccagatgagc	ggcggcagcg	gttttttagag	1020
cgaacagag	ctgcagcctc	tcgatgccgg	caaaagcgga	aactgtgggt	gtcctccctg	1080
gaaaagaagg	cagaagaact	tacttctcag	aacattcagc	tgagtaatga	agtcacatta	1140
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actgcactac	agaaaaagac	tcaaggctac	ctaggtaag			1239

&lt;210&gt; 150

&lt;211&gt; 168

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 150

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acttctcaga	acattcagct	gagtaatgaa	gtcacattac	tacgcaatga	ggtggctcag	120
ctgaagcagc	tactgttagc	tcataaagat	tgtccagtc	ccgcacaa		168

&lt;210&gt; 151

&lt;211&gt; 3093

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 151

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ggatgcaaag	agtgtgcctt	tagcaatgga	ggtcacctgt	ttgctgccgt	caatggtaat	780

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atactgctca	ccttcgatga	ccagttcctg	ctgacggctc	ctgaggatgg	ctgcctgttc	1200
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ccacagaaat	gctaccacc	caccagtcct	ctg			3093

&lt;210&gt; 152

&lt;211&gt; 210

&lt;212&gt; DNA

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&lt;213&gt; Mus musculus

&lt;400&gt; 152

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ctcaagagag	agatccagga	gagggacgag	accattcaag	acatggagaa	gcttgactac	180
aaggacgatt	ataattcaaa	cctagagatc				210

&lt;210&gt; 153

&lt;211&gt; 168

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 153

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aagtcggagc	ggatgaagct	gcagggcatc	atcagatccc	tggagaaaga	catccaaggg	120
ctcaagagag	agatccagga	gagggacgag	accattcaag	acatggag		168

&lt;210&gt; 154

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 154

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&lt;210&gt; 155

&lt;211&gt; 150

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 155

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64/79

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 <212> DNA  
 <213> Mus musculus

<400> 156

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 <212> DNA  
 <213> Mus musculus

<400> 157

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cca						123

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 <211> 933  
 <212> DNA  
 <213> Mus musculus

<400> 158

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&lt;210&gt; 159

&lt;211&gt; 90

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 159

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&lt;210&gt; 160

&lt;211&gt; 2085

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 160

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&lt;210&gt; 161

&lt;211&gt; 201

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 161

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gcccgcgccg	ctgctgaccg	a				201

&lt;210&gt; 162

&lt;211&gt; 1236

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 162

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&lt;210&gt; 163

&lt;211&gt; 75

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 163

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&lt;210&gt; 164

&lt;211&gt; 2949

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 164

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&lt;210&gt; 165

&lt;211&gt; 138

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 165

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gcggccatct	tggaagaa					138

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&lt;210&gt; 166

&lt;211&gt; 87

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 166

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ggtggagtag gctctgattt agaaatg                                         87
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&lt;210&gt; 167

&lt;211&gt; 105

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 167

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atagcaatag aagaaggaga aaaatcccag ctcaaaggcc cgaaa                    105
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&lt;210&gt; 168

&lt;211&gt; 5172

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; vector CMV-FosCBPzz

&lt;400&gt; 168

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&lt;211&gt; 70

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer 5' SP6(029)T7-FosCBPzz

&lt;400&gt; 169

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actggtggac 70

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&lt;210&gt; 170

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&lt;210&gt; 174

&lt;211&gt; 67

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> main chain of adaptor (029)

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cgaattc 67

&lt;210&gt; 175

&lt;211&gt; 68

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; main chain of adaptor (029-2)

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cgaattcc 68

&lt;210&gt; 176

&lt;211&gt; 32

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; random primer for reverse transcription

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (24)..(32)

&lt;223&gt; n = a, t, g or c

&lt;400&gt; 176

tcategtcct tgtagtcaag cttnnnnnnn nn 32

&lt;210&gt; 177

&lt;211&gt; 58

74/79

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR 5' primer (029)

&lt;400&gt; 177

ggaagatcta tttaggtgac actatagaac aacaacaaca acaaacaaca acaaaatg 58

&lt;210&gt; 178

&lt;211&gt; 36

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR 3' primer

&lt;400&gt; 178

ttttttttct tgtcgtcatc gtccttgtag tcaage 36

&lt;210&gt; 179

&lt;211&gt; 3851

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; pDrive vector

&lt;400&gt; 179

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75/79

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<210> 183

77/79

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78/79

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&lt;220&gt;

&lt;223&gt; primer C130020M04RIK\_R

&lt;400&gt; 187

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&lt;210&gt; 188

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&lt;213&gt; Artificial Sequence

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18

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&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; primer Rattus FLJ32000\_R

&lt;400&gt; 189

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&lt;210&gt; 190

&lt;211&gt; 21

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&lt;213&gt; Artificial Sequence

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&lt;223&gt; primer 5'M13\_F

&lt;400&gt; 190

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79/79

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24